

New Terminal Housing solves field wiring problems



by Bill Zubon
Marketing Specialist
Bently Nevada Corporation

In long cable runs, field wiring is seldom routed from the sensor to the monitor in one continuous length. The cable is usually cut and terminated locally (at the machine) in a junction box or Proximitor® housing. Bently Nevada's new Terminal Housing provides local connection of terminal lug sensor cables and allows you to complete a field wiring job quickly and easily.

Our Terminal Housing serves as a field junction box and:

- Accepts interconnect cables from two transducers, each having up to four connections
- Provides access to transducer wiring for test purposes
- Saves time during equipment checks
- Makes installing spare transducer cables easier
- Protects field wiring and terminal lugs from adverse environments
- Provides an entry point for rigid or flexible conduit

The Terminal Housing is made of polyphenylene sulfide (PPS) which is an advanced, high-strength thermoplastic that resists corrosion. The housing's design allows you to mount the housing vertically or horizontally, depending on space requirements. Chrome-plated zinc conduit fittings (3/4 inch NPT) are available for conduit connections. Stainless steel plugs are included to fill the two remaining holes. Inside the housing, two terminal blocks are mounted for convenient access to the wiring and terminal lugs.

Typically, sensors that use this housing are Velomitors®, Velocity Transducers, Resistance Temperature Detectors (RTDs), 25mm Differential Expansion Transducers and other sensors using terminal lugs for connections.

The Terminal Housing can be mounted directly on the machine case. In this instance, the Bently Nevada Low Pressure Cable Seal is used to seal-in machine pressure and to hold the Terminal Housing in place. By contrast, mounting the housing at a location near, but not on, the machine is accomplished by using rigid conduit at the housing's base to support the housing and flexible conduit entering the housing's side for the sensor's interconnect cable.

Terminal mounting block

This block is another accessory which provides simple field wiring connections and can be mounted inside any of our standard Proximitor® housings. It allows sensors with terminal lugs to be connected to a four-conductor terminal strip inside the housing.

The Terminal Mounting Block has the same mounting dimensions as a 3300 Proximitor®, allowing the mounting block to be conveniently mounted next to a Proximitor®. The block consists of a pre-drilled aluminum plate with an isolated terminal block attached. Mounting screws are provided for easy installation in Proximitor® housings. One mounting block should be ordered for each sensor.

For more information, contact your nearest Bently Nevada sales or service representative. ■